

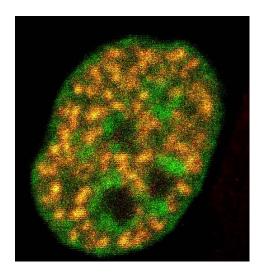
ERC-StG2011 Consolidator Grant

DYNACOM

From Genome Integrity to Genome Plasticity:

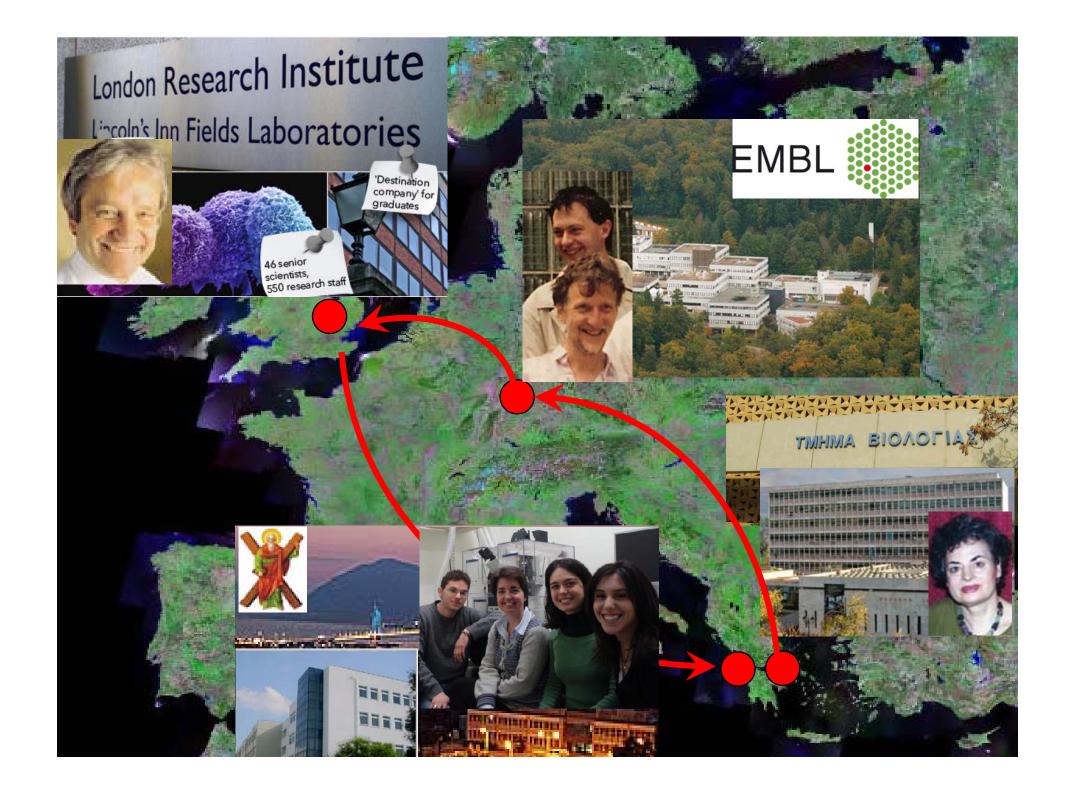
Dynamic Complexes Controlling Once per Cell Cycle Replication

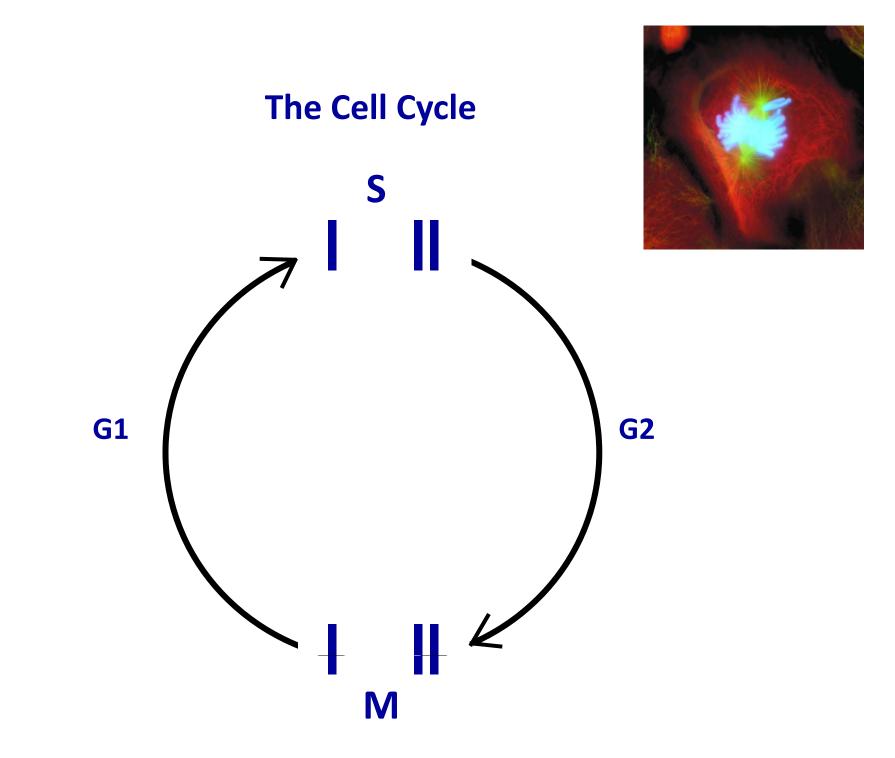
Zoi Lygerou



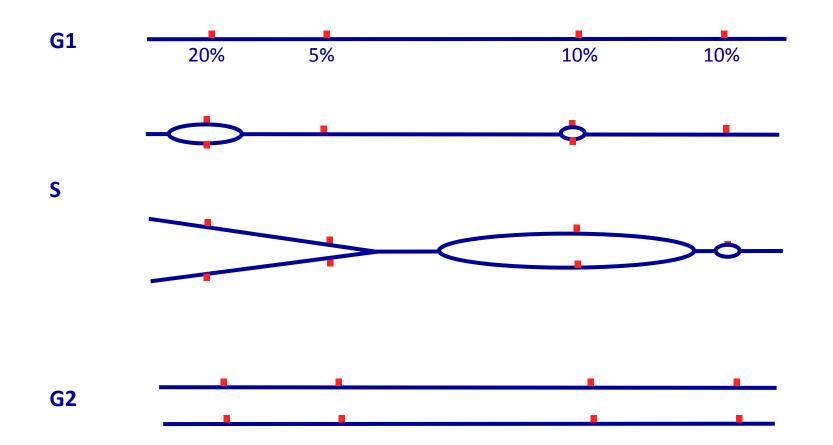




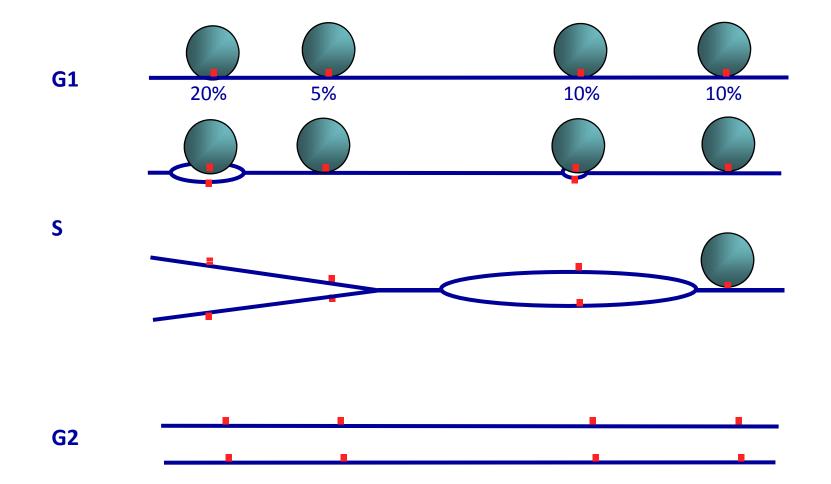




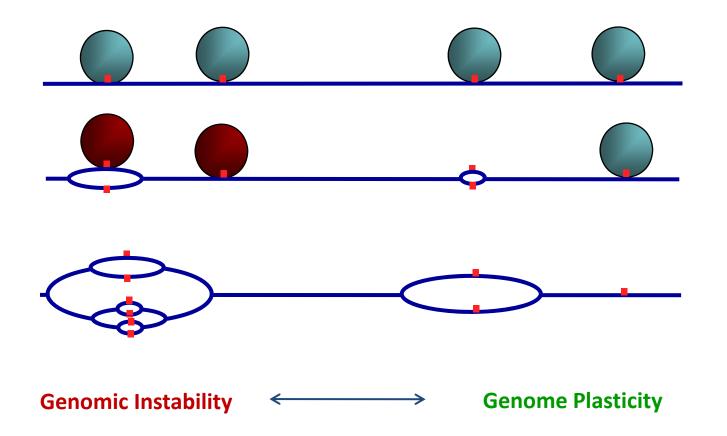
DNA Replication Dynamics are complex and uncertain



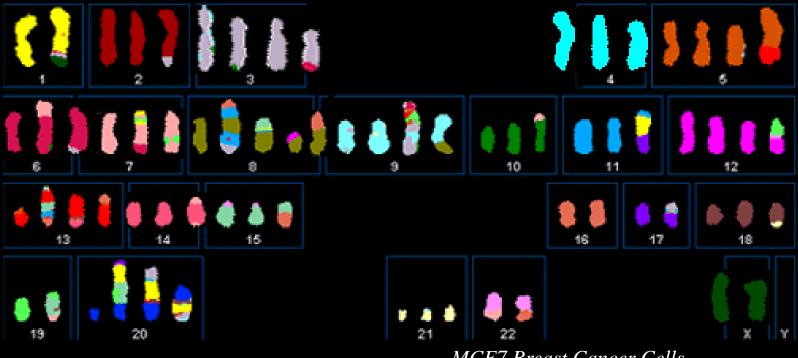
Dynamic Multi-Subunit Complexes dictate when and where replication initiates



System aberrations lead to genomic instability

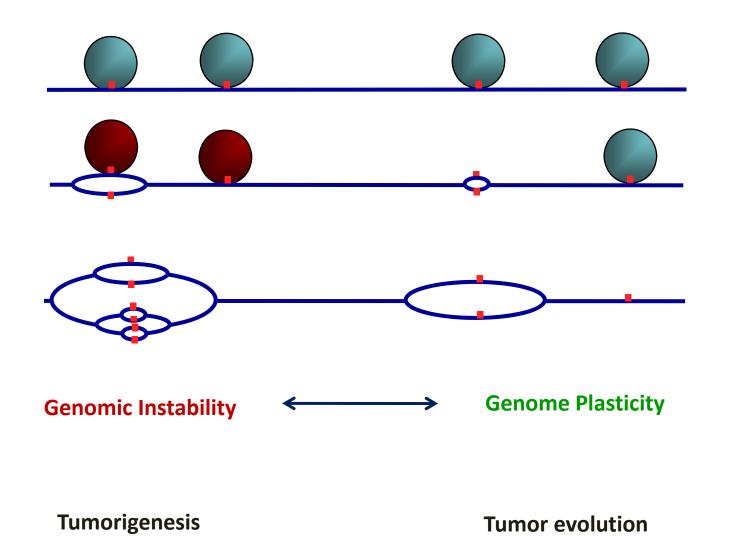


Cancer cells are genetically unstable



MCF7 Breast Cancer Cells Cancer Genomics Program, University of Cambridge

System aberrations lead to genomic instability



Questions

How is genome integrity maintained?

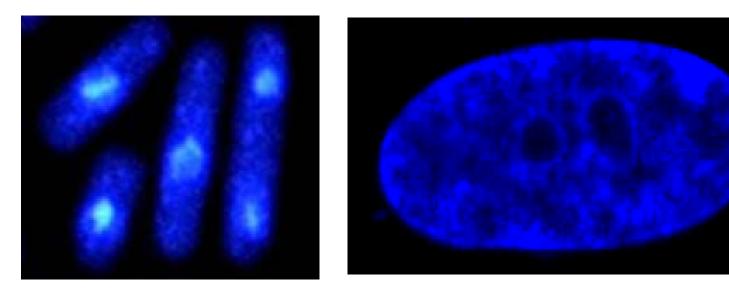
How does genome plasticity ensue?

Dynamic chromatin bound complexes

Normal conditions - System aberrations

Approaches

2 model systems

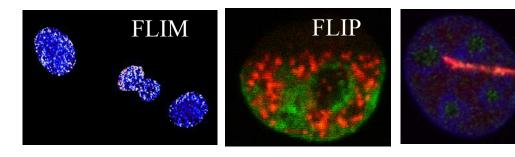


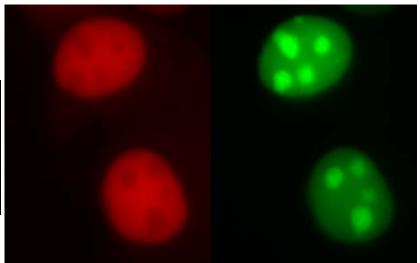
Fission yeast

Human cells

3 Complementary approaches

Functional live-cell imaging

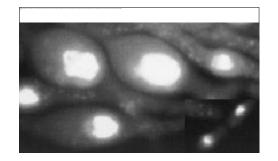


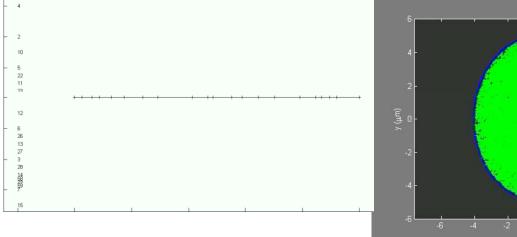


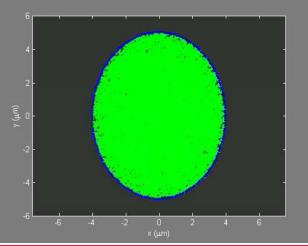
Laser Microsurgery

Modeling

Genetics







DYNACOM Lygerou



The Team

People



Research Environment

Laboratory of Biology School of Medicine

University of Patras

Molecular Cell Biology Unit

University of Patras Medical School

erc

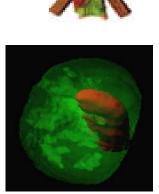


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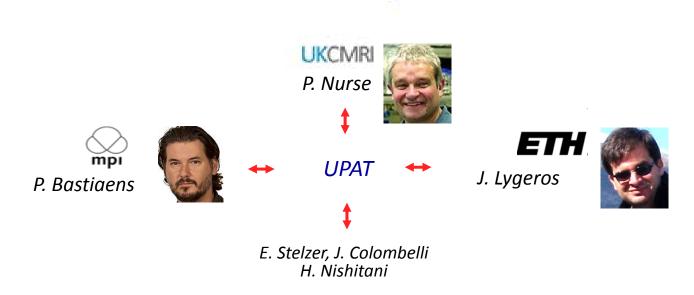




Infrastructure



Collaborators





The Timeline: from applying to running an ERC St-Grant

Application single step application – two step selection

Interview

Notification

Finalizing agreement

Start-up

Scientific Report: midterm – final Financial Report: every 18 months November

May

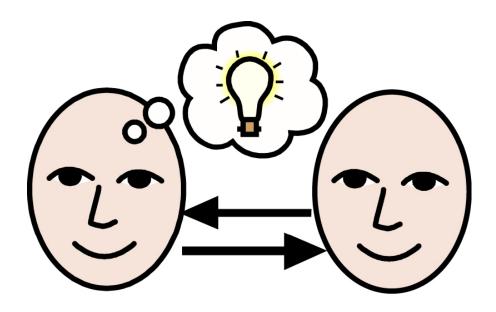
Middle July

August-October

January

Thorough Hassle-free!

A clear idea



Clearly presented

PI: clear potential

Writing the application

A Forms: check them carefully - they are binding! choose panel well - names available online

B1: only document available to panel at 1st round must be complete concise convincing (use preliminary data) catching (use figures)

highlight strong points – address weak points – be specific stress novelty, impact

B2: thorough, well documented, include preliminary data where possible Budget: use allocation, include support for PI where relevant

Prepare it in good time get opinions from colleagues (also from different fields) submit well in advance (you can replace up to the deadline)

Excellence

In context



Καλή Επιτυχία!

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